

C O N F I D E N T I A L

4 September 1964

Declass Review by NIMA / DoD

MEMORANDUM FOR: Chief, Development Branch, P&DS

SUBJECT : Evaluation of Programmable Film Reading System

1. A cursory evaluation has been made as requested concerning

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[redacted] Programmable Film Reading System equipment.

2. The instrument has a capability for reading an average of 5,000 data points per second. The X, Y coordinate readout accuracy is approximately 5 microns. This, I feel, will be applicable to reading stellar coordinates, if the accuracy can be ^{improved.} ~~increased~~. Additional research ^{to} ~~for~~ ^{providing} facts concerning feasibility of this approach should be started. The volume of stellar coordinate readout is increasing to such proportions that the purchase of additional comparators ^{is} ~~are~~ being considered. The "Film Reading System" may make procurement of these comparators unnecessary. Costs for the film reader range from

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[redacted] The film reader may also be ~~applicable~~ applicable as a universal data block reader. On-line system procedures may be another ~~possibility~~ possibility since computer and computer programs are included in the system performance. From the literature, the PFR-1 system for use with 16mm, 35mm and 70mm is of more interest. Other systems within the PFR system should also be investigated ^{to determine if there is a capability for handling up to nine inch film.}

3. In view of the possibilities of this system, it is my ~~belief~~ belief that there is a use for the system or a modified version.

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Additional study should be started with a trip to [redacted]

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